

CICD 持续集成

JENKINS+GITLAB

致力于明天

主机配置

<input type="checkbox"/>	ecs-nginx 41a48a73-2a5f-47d6-9...	可用区3	运行中	1vCPUs 1GB s3.small.1 CentOS 7.6 64bit	192.168.1.100 (私有)	按需计费	远程登录 更多 ▾
<input type="checkbox"/>	ecs-jenkins 0bb1ada5-672e-4c22-af...	可用区3	运行中	2vCPUs 4GB s3.large.2 CentOS 7.6 64bit	139.159.189.191 (弹性公网) ... 192.168.1.10 (私有)	按需计费	远程登录 更多 ▾
<input type="checkbox"/>	ecs-gitlab 71c9aaa4-60a2-460d-8...	可用区3	运行中	2vCPUs 4GB s3.large.2 CentOS 7.6 64bit	139.9.91.82 (弹性公网) 5 Mb... 192.168.1.11 (私有)	按需计费	远程登录 更多 ▾

gitlab这台机我给的是2cpu4g内存

Gitlab 环境部署

安装依赖包。

sudo yum install -y curl policycoreutils-python openssh-server

Package	Arch	Version	Repository	Size
Installing:				
policycoreutils-python	x86_64	2.5-29.el7_6.1	updates	456 k
Installing for dependencies:				
audit-libs-python	x86_64	2.8.4-4.el7	base	76 k
checkpolicy	x86_64	2.5-8.el7	base	295 k
libcgroup	x86_64	0.41-20.el7	base	66 k
libsemanage-python	x86_64	2.5-14.el7	base	113 k
python-IPy	noarch	0.75-6.el7	base	32 k
setools-libs	x86_64	3.3.8-4.el7	base	620 k
Transaction Summary				
Install 1 Package (+6 Dependent packages)				
Total download size: 1.6 M				
Installed size: 5.3 M				
Downloading packages:				
warning: /var/cache/yum/x86_64/7/base/packages/audit-libs-python-2.8.4-4.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY				
Public key for audit-libs-python-2.8.4-4.el7.x86_64.rpm is not installed				
(1/7): audit-libs-python-2.8.4-4.el7.x86_64.rpm			76 kB	00:00:00
(2/7): libcgroup-0.41-20.el7.x86_64.rpm			66 kB	00:00:00
(3/7): checkpolicy-2.5-8.el7.x86_64.rpm			295 kB	00:00:00
(4/7): python-IPy-0.75-6.el7.noarch.rpm			32 kB	00:00:00
(5/7): libsemanage-python-2.5-14.el7.x86_64.rpm			113 kB	00:00:00
(6/7): setools-libs-3.3.8-4.el7.x86_64.rpm			620 kB	00:00:00
Public key for policycoreutils-python-2.5-29.el7_6.1.x86_64.rpm is not installed				
(7/7): policycoreutils-python-2.5-29.el7_6.1.x86_64.rpm			456 kB	00:00:00
Total			2.1 MB/s 1.6 MB	00:00:00
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7				
Importing GPG key 0xF4A80EB5:				
Userid : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org>"				
Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5				

设置 SSH 开机自启动并启动 SSH 服务。

sudo systemctl enable sshd

sudo systemctl start sshd

安装 Postfix 来发送通知邮件。

sudo yum install postfix

设置 Postfix 开机自启动。

sudo systemctl enable postfix

启动 Postfix 服务。

输入命令 `vim /etc/postfix/main.cf` 打开 main.cf 文件并找到下图内容：

```
86 #
87 # The myorigin parameter specifies the domain that locally-posted
88 # mail appears to come from. The default is to append $myhostname,
89 # which is fine for small sites. If you run a domain with multiple
90 # machines, you should (1) change this to $mydomain and (2) set up
91 # a domain-wide alias database that aliases each user to
92 # user@that.users.mailhost.
93 #
94 # For the sake of consistency between sender and recipient addresses,
95 # myorigin also specifies the default domain name that is appended
96 # to recipient addresses that have no @domain part.
97 #
98 #myorigin = $myhostname
99 #myorigin = $mydomain
100
101 # RECEIVING MAIL
102
103 # The inet_interfaces parameter specifies the network interface
104 # addresses that this mail system receives mail on. By default,
105 # the software claims all active interfaces on the machine. The
106 # parameter also controls delivery of mail to user@[ip.address].
107 #
108 # See also the proxy_interfaces parameter, for network addresses that
109 # are forwarded to us via a proxy or network address translator.
110 #
111 # Note: you need to stop/start Postfix when this parameter changes.
112 #
113 #inet_interfaces = all
114 #inet_interfaces = $myhostname
115 #inet_interfaces = $myhostname, localhost
116 #inet_interfaces = localhost
117
118 # Enable IPv4, and IPv6 if supported
119 inet_protocols = all
120
121 # The proxy_interfaces parameter specifies the network interface
:set nu
```

112,1 13%

把这里改成all

将这行代码改为 `inet_interfaces = all`，然后按 `Esc` 键，然后输入 `:wq` 并回车以保存并关闭 main.cf 文件。

输入命令 `sudo systemctl start postfix` 启动 Postfix 服务。

添加 GitLab 软件包仓库。

`curl https://packages.gitlab.com/install/repositories/gitlab/gitlab-ce/script.rpm.sh | sudo bash`

安装 GitLab。

`sudo EXTERNAL_URL="GitLab 服务器的公网 IP 地址" yum install -y gitlab-ce`

```
Complete!
[root@gitlab ~]# sudo EXTERNAL_URL="139.91.82" yum install -y gitlab-ce
```

这个是我 gitlab 公网 ip

Package	Arch	Version	Repository	Size
Installing: gitlab-ce	x86_64	12.0.3-ce.0.el7	gitlab_gitlab-ce	611 M
Transaction Summary				

版本号

安装完成会出现如下图片：

[illegible]

说明已经自动启动 gitlab 服务，如没有出现以上情况则说明硬件配置太低或输入 `systemctl restart gitlab-runsvdir.service` 重启 gitlab 服务

其他操作命令：

sudo gitlab-ctl status	查看服务的状态
sudo gitlab-ctl start	启动
sudo gitlab-ctl stop	关闭
sudo gitlab-ctl restart	重启

[root@gitlab ~]# vim /etc/gitlab/gitlab.rb #gitlab 配置文件

```
1 ## GitLab configuration settings
2 ##! This file is generated during initial installation and **is not** modified
3 ##! during upgrades.
4 ##! Check out the latest version of this file to know about the different
5 ##! settings that can be configured by this file, which may be found at:
6 ##! https://gitlab.com/gitlab-org/omnibus-gitlab/raw/master/files/gitlab-config-template/gitlab.rb.template
7
8
9 ## GitLab URL
10 ##! URL on which GitLab will be reachable.
11 ##! For more details on configuring external_url see:
12 ##! https://docs.gitlab.com/omnibus/settings/configuration.html#configuring-the-external-url-for-gitlab
13 external_url 'http://139.91.82'
14
15 ## Roles for multi-instance GitLab
16 ##! The default is to have no roles enabled, which results in GitLab running as an all-in-one instance.
17 ##! Options:
18 ##!   redis_sentinel_role redis_master_role redis_slave_role geo_primary_role geo_secondary_role
19 ##! For more details on each role, see:
20 ##! https://docs.gitlab.com/omnibus/roles/README.html#roles
21 ##!
22 # roles ['redis_sentinel_role', 'redis_master_role']
23
24 ## Legend
25 ##! The following notations at the beginning of each line may be used to
26 ##! differentiate between components of this file and to easily select them using
27 ##! a regex.
28 ##! ## Titles, subtitles etc
29 ##! ##! More information - Description, Docs, Links, Issues etc.
30 ##! Configuration settings have a single # followed by a single space at the
31 ##! beginning; Remove them to enable the setting.
32
33 ##! **Configuration settings below are optional.**
:set nu
```

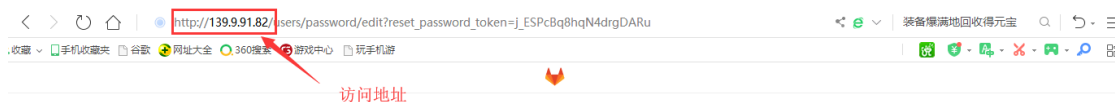
这里可以修改访问端口

如果修改了配置文件，需要执行 `gitlab-ctl reconfigure` 进行更新配置（只要修改了该文件，必须执行该命令才能生效）

执行 `gitlab-ctl restart` 重启服务，我这里不做修改

服务启动成功后即可通过公网 IP 去访问，如果修改了端口，IP 后面就要加上端口去访问

使用浏览器访问 GitLab 服务器的公网 IP 地址，显示如下页面，说明环境搭建成功。



Please create a password for your new account.

GitLab Community Edition

Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.

输入初始密码

确认初始密码

Change your password

New password

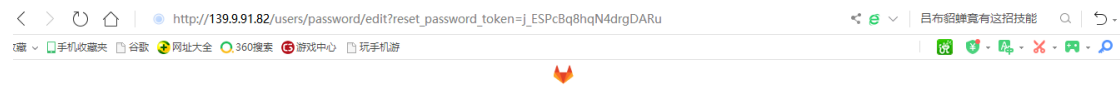
Confirm new password

Change your password

Didn't receive a confirmation email? [Request a new one](#)

Already have login and password? [Sign in](#)

管理员默认为 root 用户，初始密码不能低于 8 位



Please create a password for your new account.

GitLab Community Edition

Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.

Change your password

New password

.....

Confirm new password

.....

Change your password

密码不能低于8位

Didn't receive a confirmation email? [Request a new one](#)

Already have login and password? [Sign in](#)

[Explore](#) [Help](#) [About GitLab](#)

GitLab Community Edition

Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.

Sign in

Register

Username or email

root

Password

.....

☐ Remember me

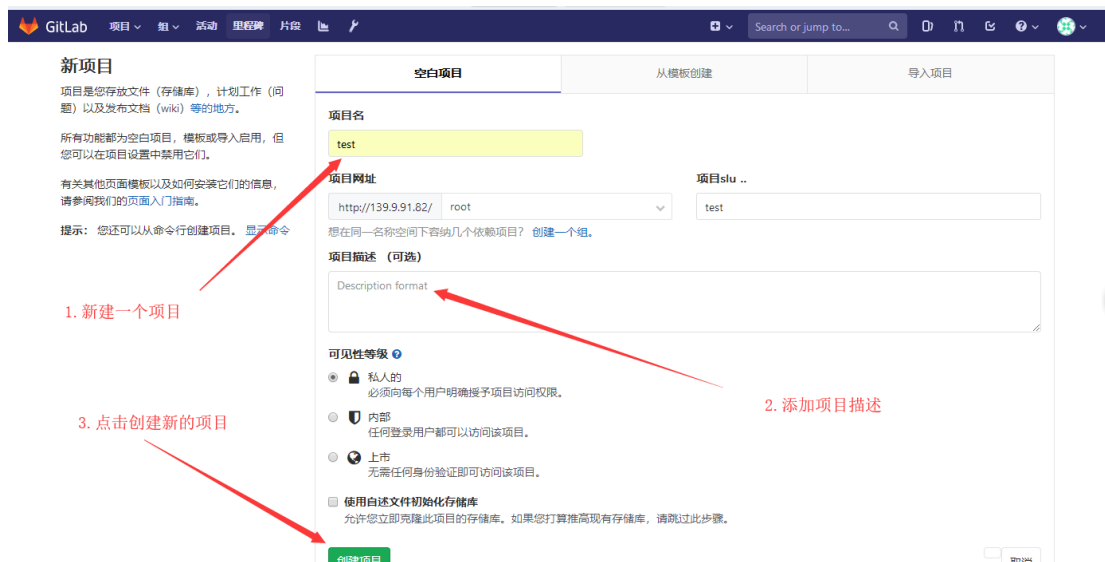
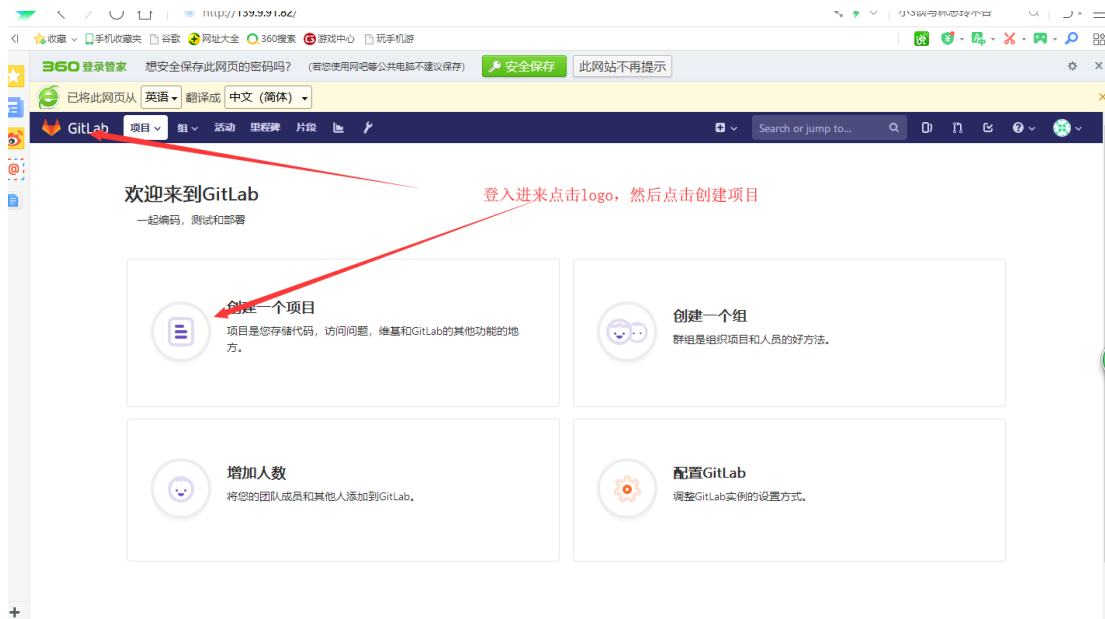
[Forgot your password?](#)

Sign in

默认用户为root

密码位刚刚输入的初始密码

[Explore](#) [Help](#) [About GitLab](#)



把要克隆或要上传代码这台服务器的公钥 `cat /root/.ssh/id_rsa.pub` 打开公钥文件复制到 gitlab 服务器指定位置上

```
[root@jenkins ~]# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Created directory '/root/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:WmWfJujKkaM/jN0Iy0Wbv3a56CaR3xTk1R9JRP/y6M root@jenkins
The key's randomart image is:
+---[RSA 2048]-----+
  ...*0.
  ..0+..+
  0+0. .
  0. 000.+ .
  ..0=S .0+ .
  .B B.0 .
  .+0=..+ .
  000.0... .
  +=0..0.E
+---[SHA256]-----+
[root@jenkins ~]# vim /root/.ssh/id_rsa
id_rsa id_rsa.pub
[root@jenkins ~]# vim /root/.ssh/id_rsa.pub
```

这个是生成密钥的命令

这个是私钥文件

这个是公钥文件

把这个公钥文件内容复制到gitlab指定位置上

添加公钥

1. 点添加密钥

2. 把要上传代码那台服务器的公钥复制到这里

3. 点添加密钥

ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDAQC5WtQGArayt00UvR6vF4Wuatz3PUZCRY3CstMP
VP4xa1oL2ZROuMx9G8qH48Ok2cmpAcgQ6H117sgeGukJVZ+R7WERCmRWnZGR+oQZoSRw
Cja+Lm1Sgqva1PGhw8NGVM20chAzm5SzAvuCVWUQVWVylhkhKA90DoXLdJ58Fu06yZkAos/
Egsg3GTURi09eURCAF2EjgkU8VNWIA3uGJmQgOUEY06X0PBB20Bww+YA5NkrjVTCpAPeL9M
KzKdR6LPhXdd+pBaz2myXKLBCrOCdDsEvjWjEa37i57Hab5TWmF0DaZD+dRIWVuDee2laEOIW
faR0/zt root@jenkins

Title
root@jenkins
Name your individual key via a title

Add key

Your SSH keys (0)
There are no SSH keys with access to your account.

#克隆代码仓库，然后测试是否能够上传代码到 gitlab

The top screenshot shows the GitLab web interface for a project named 'test'. The page is in English. It includes a sidebar with navigation links like 'Project', 'Details', 'Activity', 'Cycle Analytics', 'Issues', 'Merge Requests', 'CI / CD', 'Operations', 'Wiki', 'Snippets', and 'Settings'. The main content area shows the project details, including a 'Clone with SSH' button and a 'Clone with HTTP' button. A red arrow points to the SSH clone URL: `git@139.9.91.82:root/test.git`. Another red arrow points to the 'git clone' command in the 'Create a new repository' section: `git clone git@139.9.91.82:root/test.git`. The bottom screenshot shows the same page in Chinese. It includes a sidebar with navigation links like '项目', '细节', '活动', '循环分析', '问题', '合并请求', 'CI / CD', '操作', '维基', '片段', and '设置'. The main content area shows the project details in Chinese. A red arrow points to the 'git clone' command in the '创建一个新的存储库' section: `git clone git@139.9.91.82:root / test.git`. Another red arrow points to the 'git remote add' command in the '推送现有文件夹' section: `git remote add origin git@139.9.91.82:root / test.git`.

yum -y install git

#安装 git

git clone [git@139.9.91.82:root/test.git](http://139.9.91.82:root/test.git)

#克隆远程仓库

cd test/

echo 11111 > 1.txt

git add .

git commit -m "add 1.txt"

git push

```
Cloning into 'test'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (3/3), done.
[root@jenkins ~]# ls
apache-tomcat-9.0.6.tar.gz  baidu.html  index.html  test
[root@jenkins ~]# cd test/
[root@jenkins test]# echo 11111 > 1.txt
[root@jenkins test]# git add .
[root@jenkins test]# git commit -m "add 1.txt"
[master 818a5c2] add 1.txt
1 file changed, 1 insertion(+)
 create mode 100644 1.txt
[root@jenkins test]# git push
warning: push.default is unset; its implicit value is changing in
Git 2.0 from 'matching' to 'simple'. To squelch this message
and maintain the current behavior after the default changes, use:

    git config --global push.default matching

To squelch this message and adopt the new behavior now, use:

    git config --global push.default simple

See 'git help config' and search for 'push.default' for further information.
(the 'simple' mode was introduced in Git 1.7.11. Use the similar mode
'current' instead of 'simple' if you sometimes use older versions of Git)

Counting objects: 4, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 275 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To git@139.9.91.82:root/test.git
 fcecdc3..818a5c2 master -> master
[root@jenkins test]#
```

仓库已经可以免密克隆下来了

上传代码

配置 Jenkins

系统要求

最低推荐配置:

256MB 可用内存

1GB 可用磁盘空间(作为一个 [Docker](#) 容器运行 jenkins 的话推荐 10GB)为小团队推荐的

硬件配置:

1GB+ 可用内存

50 GB+ 可用磁盘空间

软件配置:

Java 8—无论是 Java 运行时环境 (JRE) 还是 Java 开发工具包 (JDK) 都可以。

安装 JDK

```
yum install -y java-1.8.0-openjdk java-1.8.0-openjdk-devel
```

安装 tomcat

```
[root@jenkins ~]# tar -xf apache-tomcat-9.0.6.tar.gz
```

```
[root@jenkins ~]# mv apache-tomcat-9.0.6 /usr/local/tomcat
```

```
[root@jenkins ~]# tar -xvf apache-tomcat-9.0.6.tar.gz
[root@jenkins ~]# ls
apache-tomcat-9.0.6  apache-tomcat-9.0.6.tar.gz  baidu.html  index.html
[root@jenkins ~]# mv apache-tomcat-9.0.6 /usr/local/tomcat
[root@jenkins ~]#
```

访问 jenkins 官网 <https://jenkins.io/zh/> 下载 Jenkins



Jenkins 下载

Changing or upgrading Jenkins 2.176.1

Deploy Jenkins 2.176.1

[Deploy to Azure](#)

Download Jenkins 2.176.1 for:

Docker
FreeBSD
Gentoo
Mac OS X
OpenBSD
openSUSE
Red Hat/Fedora/CentOS
Ubuntu/Debian
Windows
Generic Java package (.war)

Download Jenkins 2.184 for:

Arch Linux
Docker
FreeBSD
Gentoo
Mac OS X
OpenBSD
openSUSE
Red Hat/Fedora/CentOS
Ubuntu/Debian
OpenIndiana Hipster
Windows
Generic Java package (.war)

我这里是点的是war包下载，鼠标点击右键复制链接地址，然后终端粘贴后面粘粘链接地址回车下载

Once a Jenkins package has been downloaded, proceed to the **Installing Jenkins** section of the User Handbook.

wget http://mirrors.jenkins.io/war-stable/latest/jenkins.war

```
[root@jenkins ~]# mv apache-tomcat-9.0.6 /usr/local/tomcat
[root@jenkins ~]# wget http://mirrors.jenkins.io/war-stable/latest/jenkins.war
--2019-07-13 17:20:28-- http://mirrors.jenkins.io/war-stable/latest/jenkins.war
Resolving mirrors.jenkins.io (mirrors.jenkins.io)... 52.202.51.185
Connecting to mirrors.jenkins.io (mirrors.jenkins.io)|52.202.51.185|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: http://mirrors.tuna.tsinghua.edu.cn/jenkins/war-stable/2.176.1/jenkins.war [following]
--2019-07-13 17:20:29-- http://mirrors.tuna.tsinghua.edu.cn/jenkins/war-stable/2.176.1/jenkins.war
Resolving mirrors.tuna.tsinghua.edu.cn (mirrors.tuna.tsinghua.edu.cn)... 101.6.8.193, 2402:f000:1:408:8100::1
Connecting to mirrors.tuna.tsinghua.edu.cn (mirrors.tuna.tsinghua.edu.cn)|101.6.8.193|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 77272319 (74M) [application/java-archive]
Saving to: 'jenkins.war'

38% [=====>] 29,744,816 4.67MB/s eta 12s
```

两种方式使用其中一种就可以下载了

Jenkins的RedHat Linux RPM包

要使用此存储库，请运行以下命令：

也可以生成jenkins仓库

```
sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
```

如果您以前从Jenkins导入了密钥，那么“rpm --import”将失败，因为您已经有了密钥。请忽略它并继续前进。

您将需要显式安装Java运行时环境，因为Oracle的Java RPM不正确并且无法注册为提供Java依赖项。因此，在Java上添加显式依赖性要求会强制安装OpenJDK JVM。

- 2.164 (2019-02) 和更新版本：Java 8或Java 11
- 2.54 (2017-04) 和更新版本：Java 8
- 1.612 (2015-05) 及更新版本：Java 7

有了这个设置，Jenkins包可以安装：

```
yum安装jenkins
```

```
[root@jenkins ~]# ls
```

```
apache-tomcat-9.0.6.tar.gz baidu.html index.html jenkins.war
```

```
[root@jenkins ~]# cd /usr/local/tomcat/ #切换到tomcat目录
```

```
[root@jenkins tomcat]# pwd
```

```
/usr/local/tomcat
```

```
[root@jenkins tomcat]# rm -rf webapps/* #删除tomcat根目录下其他默认文件
```

```
[root@jenkins tomcat]# ls webapps/
```

```
[root@jenkins tomcat]# mv /root/jenkins.war /usr/local/tomcat/webapps/ #移动下载好
```

的 jenkins.war 包到 tomcat 网页根目录下

```
[root@jenkins tomcat]# ls
```

```
bin  conf  lib  LICENSE  logs  NOTICE  RELEASE-NOTES  RUNNING.txt  temp
webapps  work
```

```
[root@jenkins tomcat]# ./bin/startup.sh #启动 tomcat 服务
```

```
Using CATALINA_BASE:   /usr/local/tomcat
```

```
Using CATALINA_HOME:   /usr/local/tomcat
```

```
Using CATALINA_TMPDIR: /usr/local/tomcat/temp
```

```
Using JRE_HOME:        /usr
```

```
Using
```

CLASSPATH:

```
/usr/local/tomcat/bin/bootstrap.jar:/usr/local/tomcat/bin/tomcat-juli.jar
```

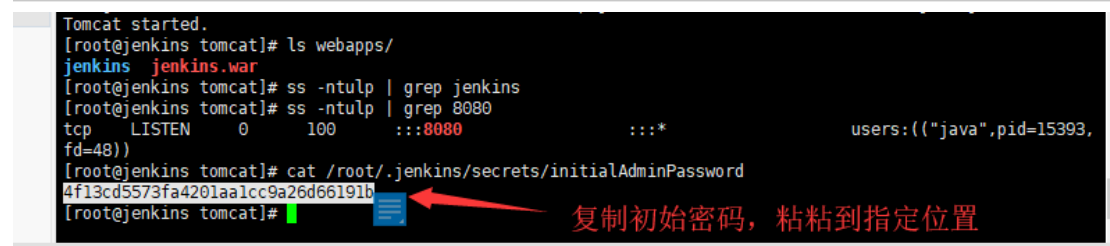
```
Tomcat started.
```

```
[root@jenkins tomcat]# ls webapps/
```

#tomcat 服务启动会自动解 jenkins.war 包

```
jenkins  jenkins.war
```

然后访问 <http://139.159.189.191:8080/jenkins> 见到如下图片就说明安装成功：



复制初始密码, 粘粘到指定位置

插件安装：



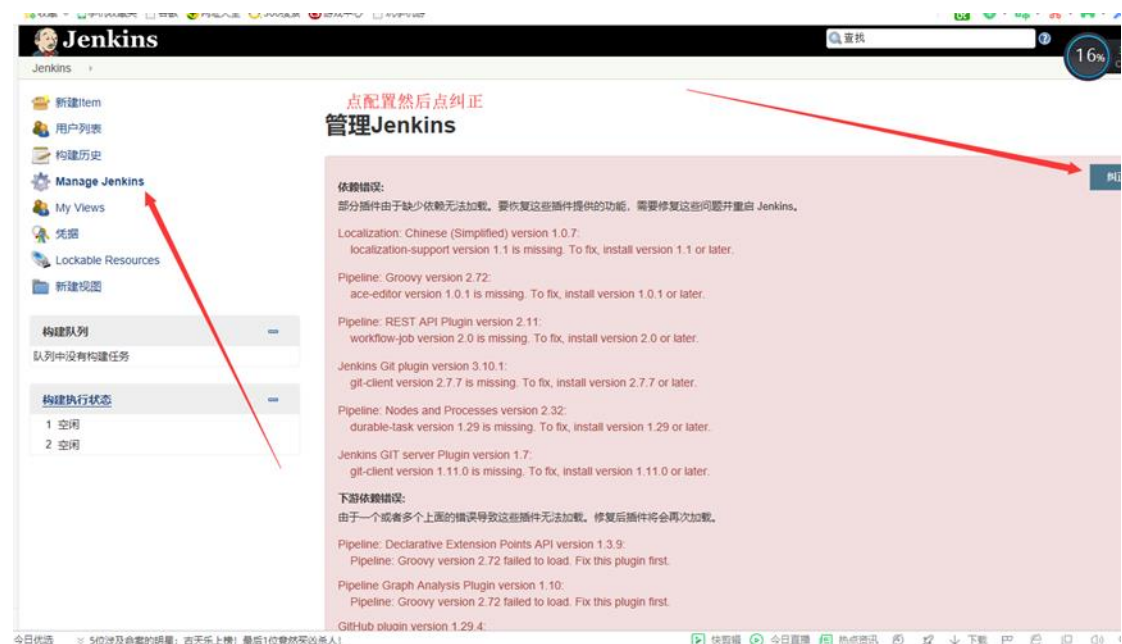
打×的插件是由于网络传输导致的安装失败，后面再重新安装即可。
插件安装可以自定义，可以用社区推荐安装，工作需要的插件一定要安装上
安装完成出现如下页面：



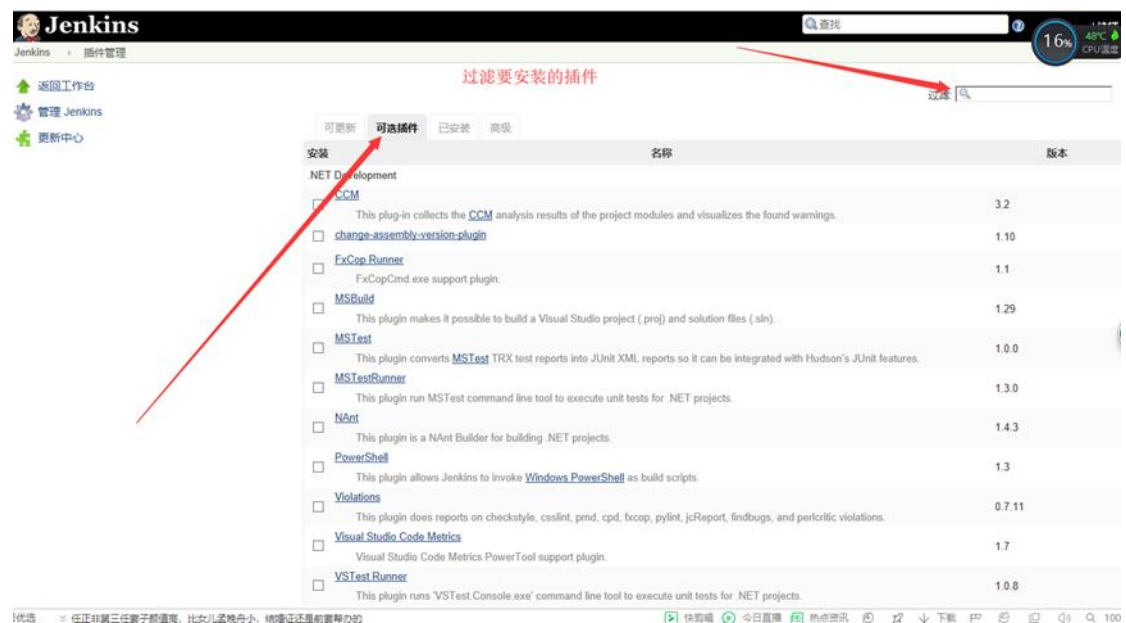


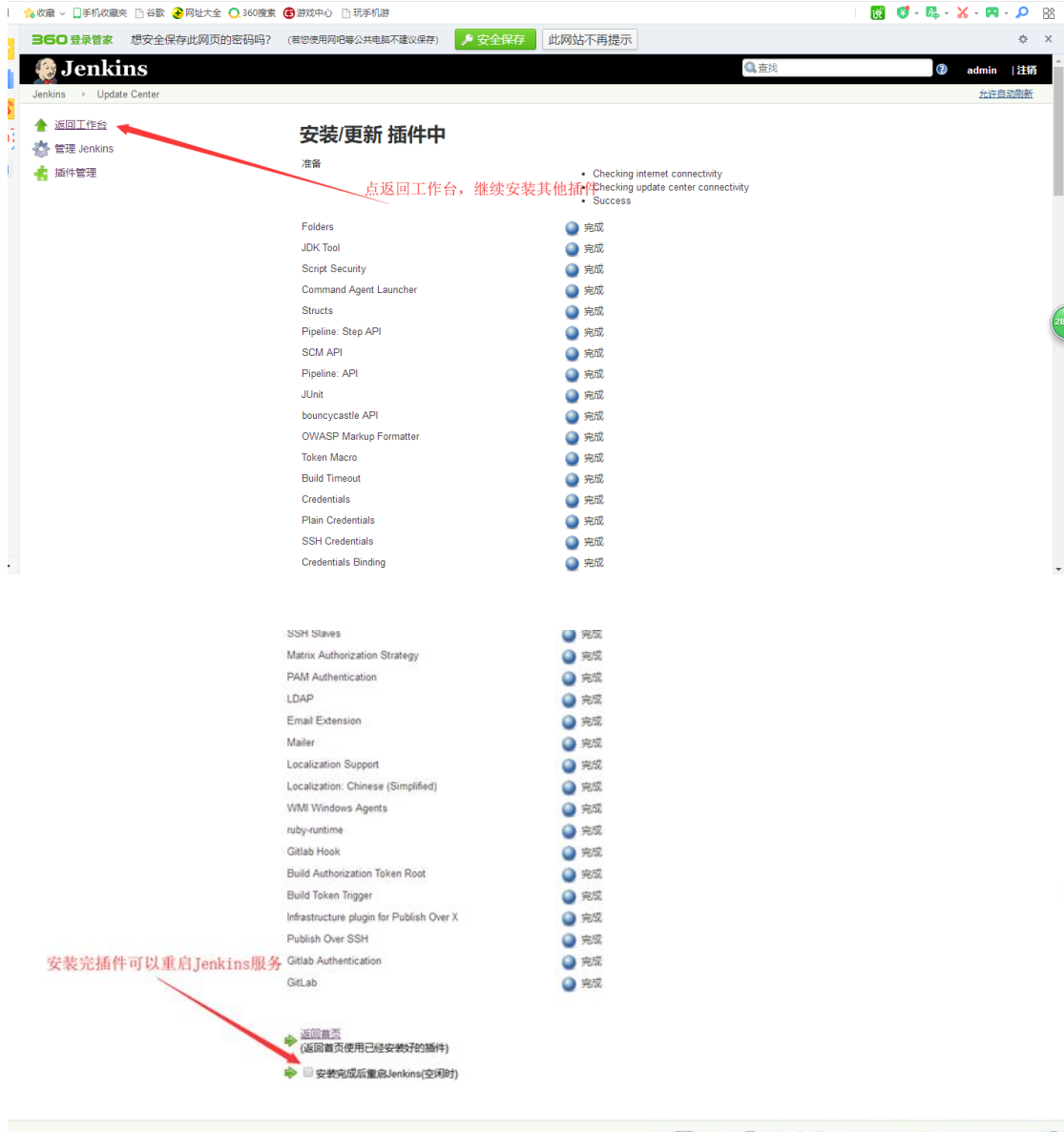


如果插件没安装完会出现如下页面，点纠正安装相关插件就好了：

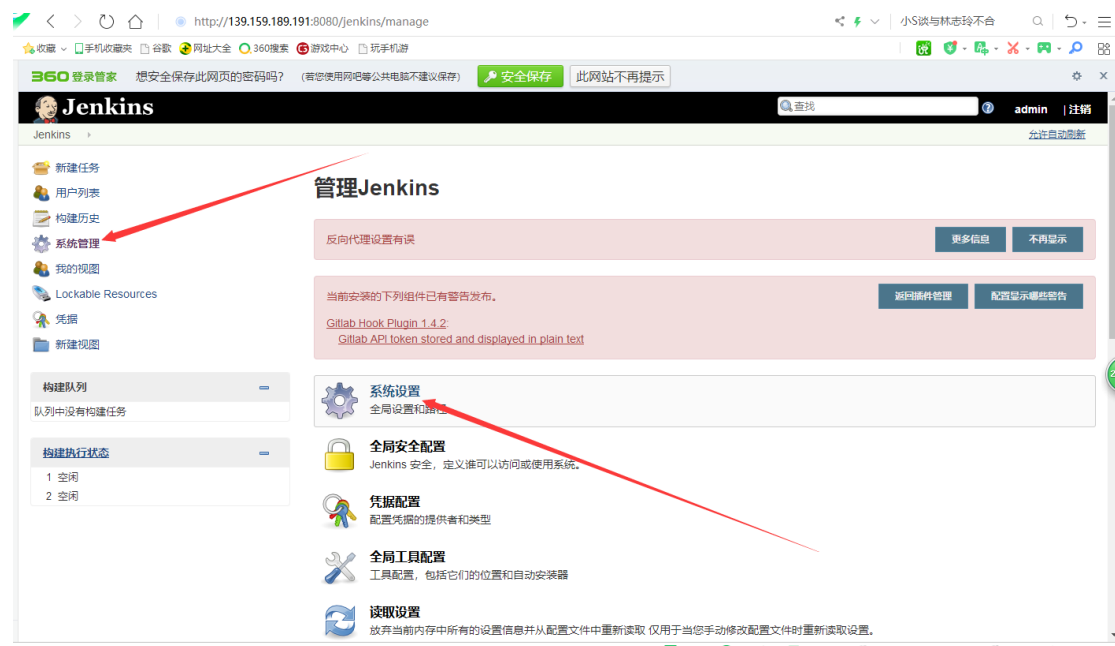


必须需要添加的 6 个插件 :Gitlab Hook、Build Authorization Token Root、Publish Over SSH、Gitlab Authentication、Gitlab、Git Parameter

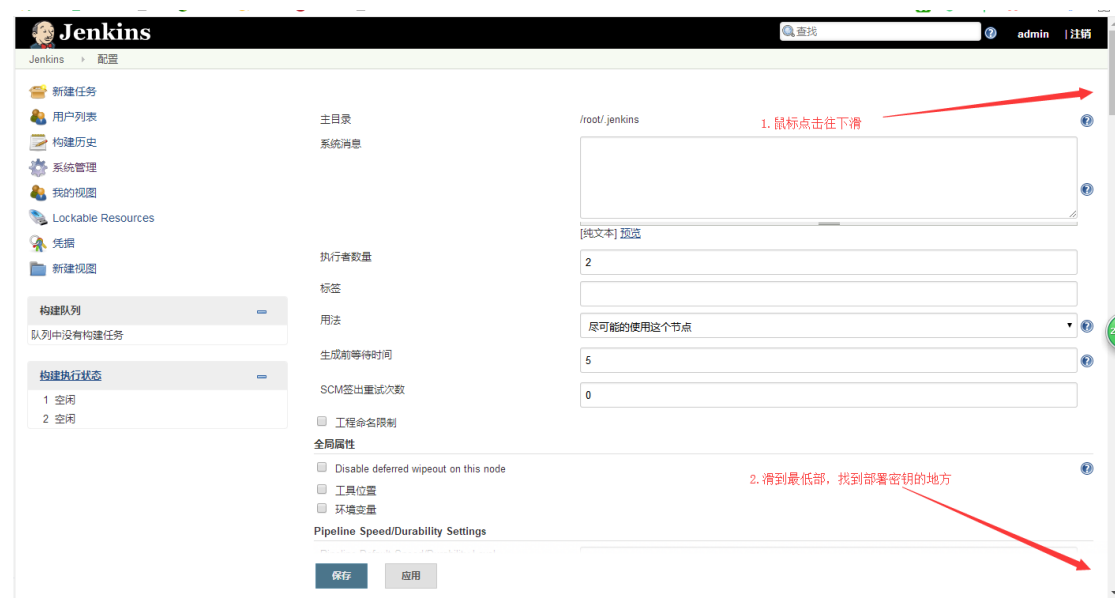




配置 jenkins

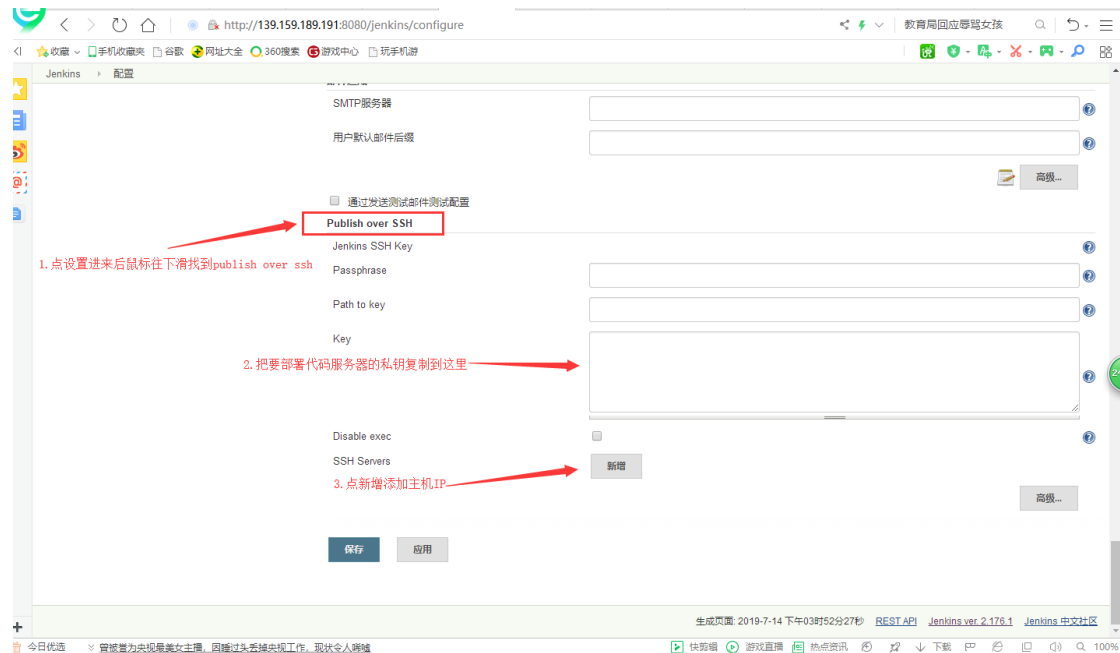


进来系统设置如下图，然后鼠标往下滑：



部署密钥：

#添加主机：系统管理 - 系统设置 找到 Publish over SSH



开始添加要部署代码的主机，注意一定是要能够 ssh 登陆的用户。



Jenkins > 配置

Publish over SSH

Jenkins SSH Key

Passphrase

Path to key

Key

Disable exec

SSH Servers

SSH Server

Name

Hostname

Username

Remote Directory

Success

Test Configuration

高级...

删除

新增

保存

应用

9. 最后点保存

1. 鼠标点系统管理进来，鼠标往下滑动找到publish over SSH

2. 这里复制的是 Jenkins 服务器的私钥，这个私钥要可以ssh免密连接部署代码那台机器

3. 点新增添加服务器

4. 这个名字随便取

5. 要部署代码服务器的IP

6. 可以ssh登录的用户，我这里是用root用户，生成环境可以创建，相对应的用户，给相对应的权限

7. 这里/表示部署网页文件的根路径

8. 设置完成，点测试，报错说明无法远程连接，出现Success表示设置成功

这里要注意的是要先把 Jenkins 服务器的公钥传送给要部署代码的那台机器然后再点测试

```
[root@jenkins ~]# ssh-copy-id 192.168.1.100
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: /root/.ssh/id_rsa.pub
The authenticity of host '192.168.1.100 (192.168.1.100)' can't be established.
ECDSA key fingerprint is SHA256:sgx8Ejs+8MwzXQ39mG7t18edXedUqoaNta623ghIOU.
ECDSA key fingerprint is MD5:d3:25:81:05:79:d5:38:45:88:6e:94:4f:78:7a:44:d7.
Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already i
nstalled
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install th
e new keys
root@192.168.1.100's password:
Number of key(s) added: 1
Now try logging into the machine, with: "ssh '192.168.1.100'"
and check to make sure that only the key(s) you wanted were added.
[root@jenkins ~]# cat /root/.ssh/id_rsa
```

拷贝Jenkins服务器的公钥给要部署代码的那台机器

输入要部署代码那台机器的登录密码

#添加完主机之后，新建一个项目，开始配置构建操作

Jenkins

1 查找 admin | 注销

新建任务

用户列表

构建历史

系统管理

我的视图

Lockable Resources

凭据

新建视图

构建队列

队列中没有构建任务

构建执行状态

1 空闲

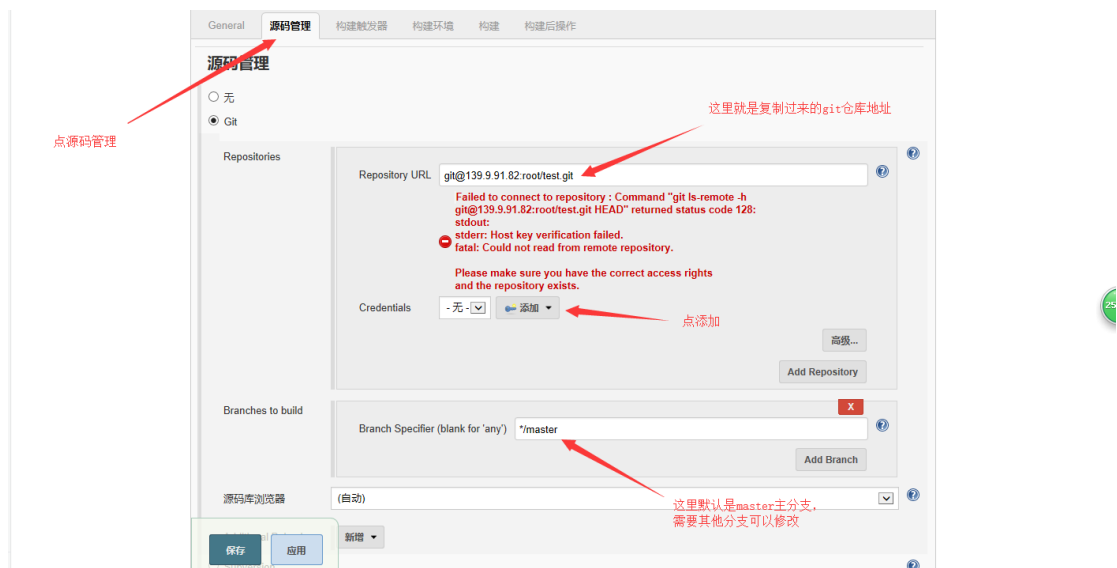
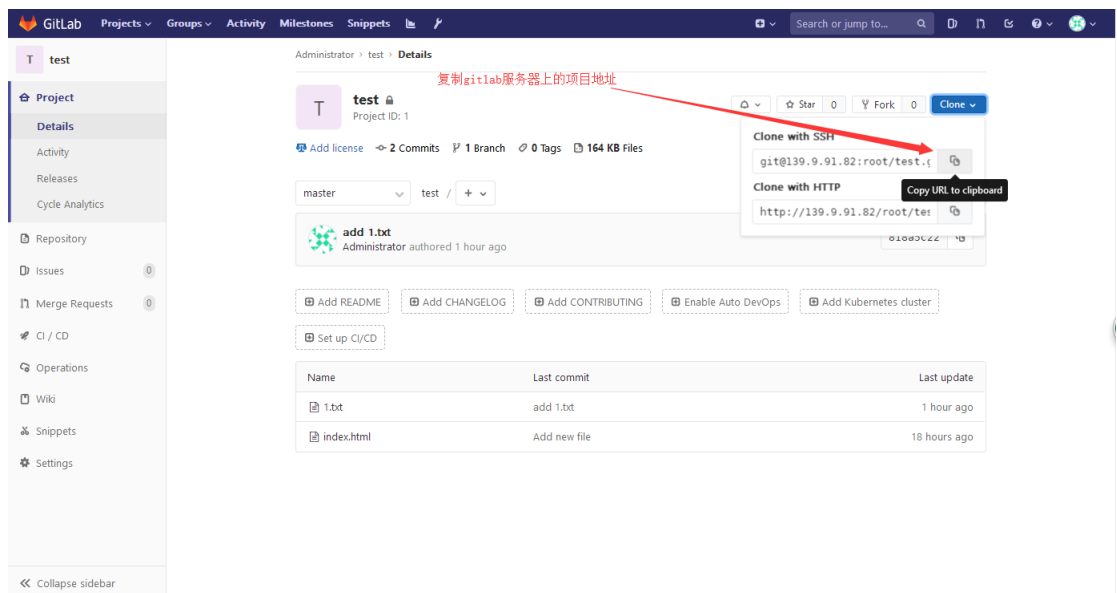
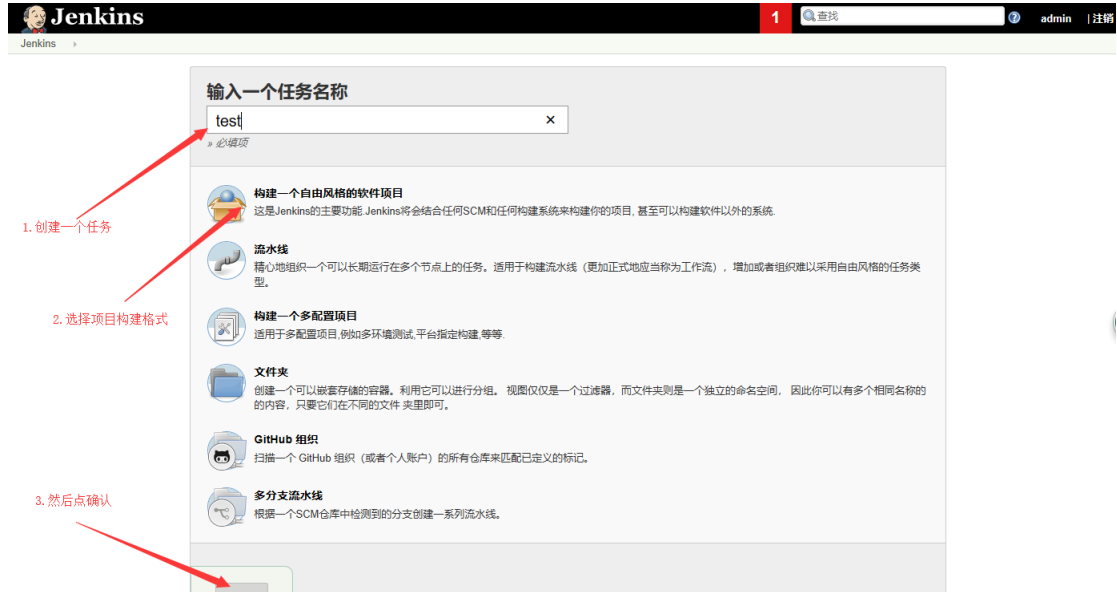
2 空闲

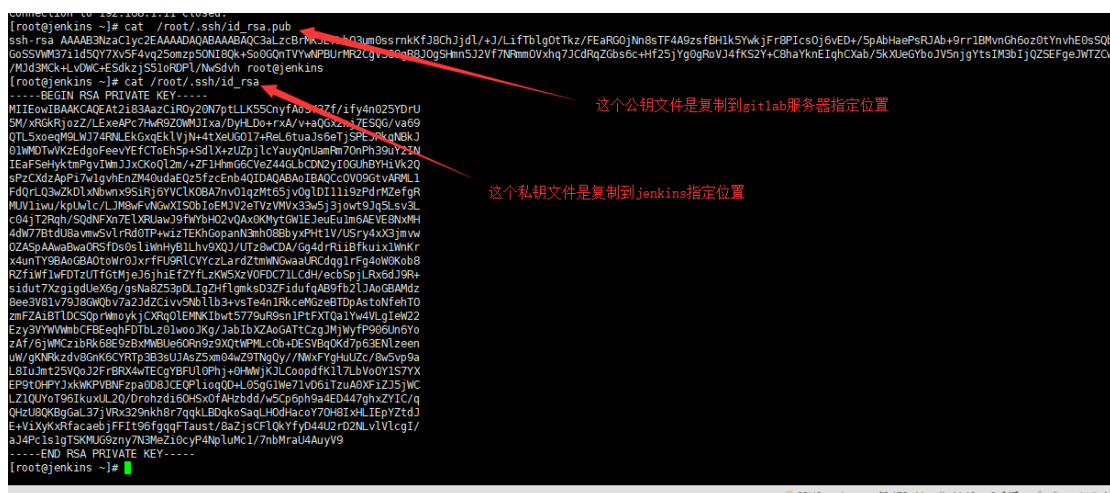
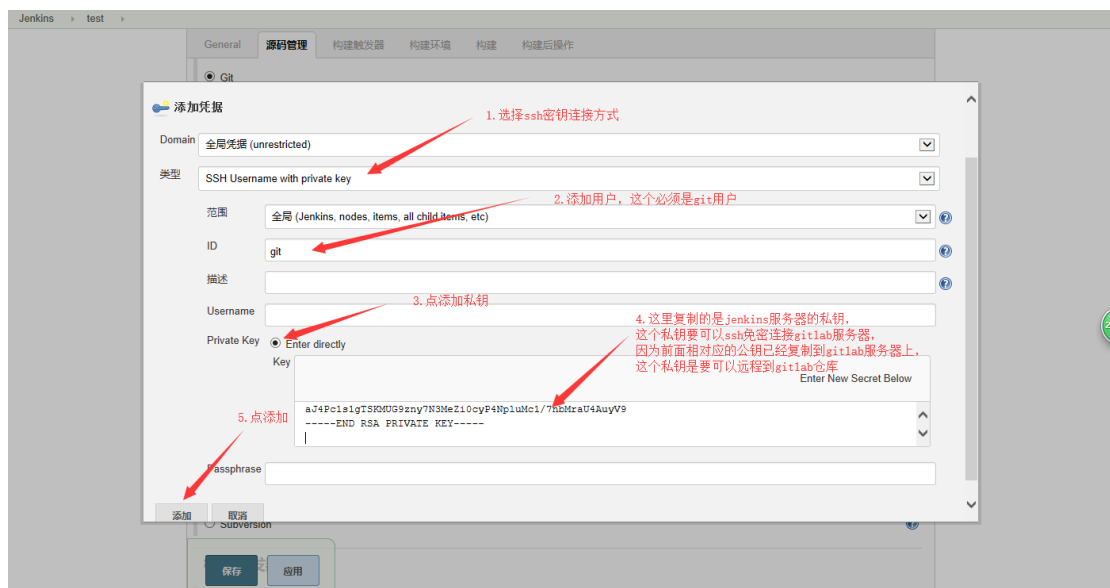
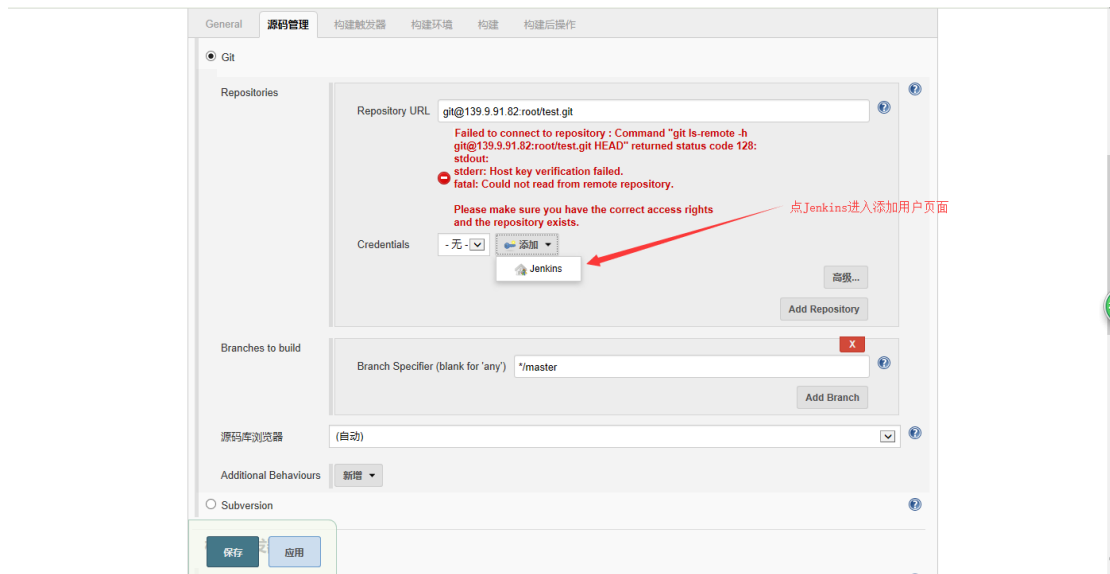
欢迎来到 Jenkins!

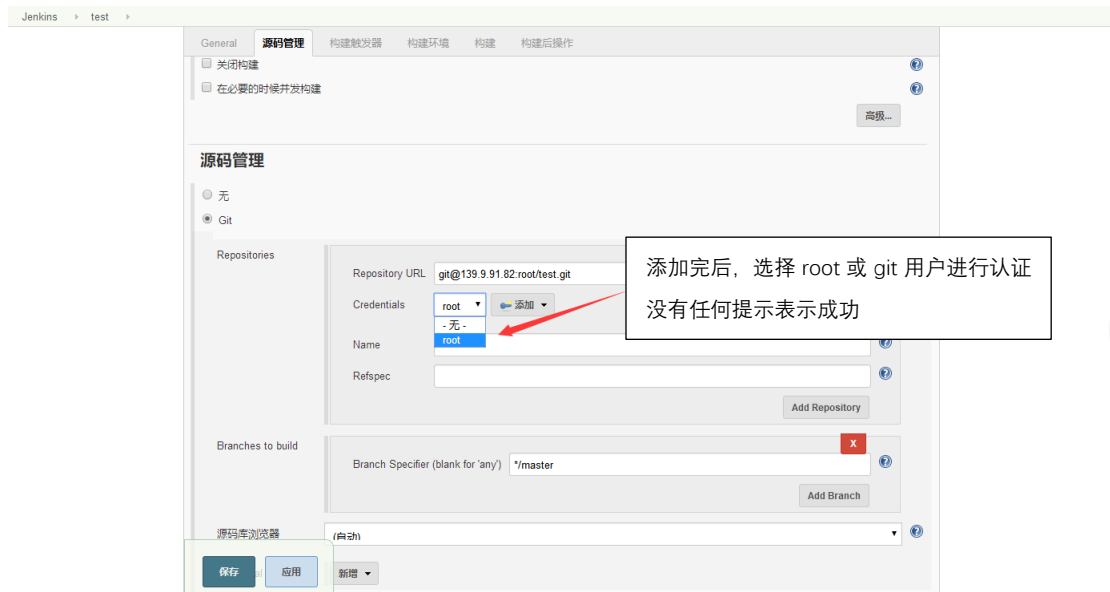
开始创建一个新任务。

生成页面: 2019-7-14 下午05时27分04秒

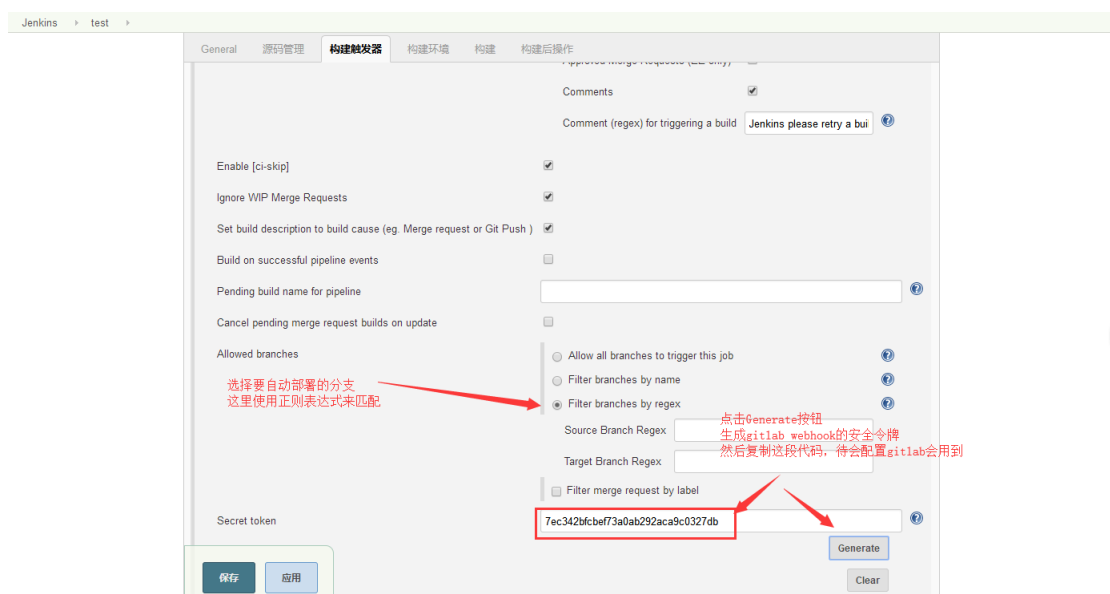
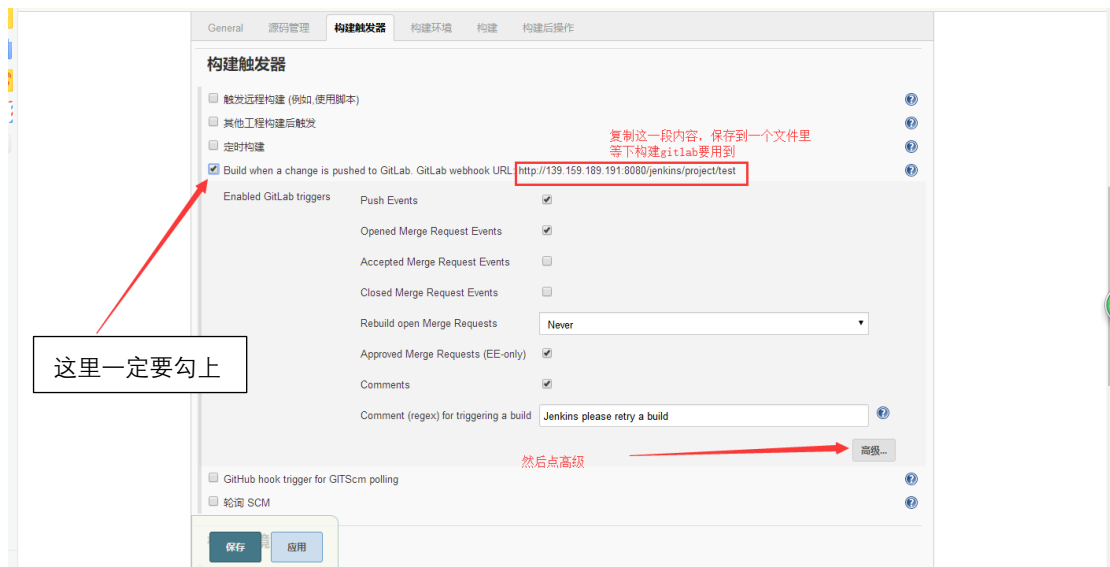
[REST API](#) [Jenkins ver. 2.176.1](#) [Jenkins 中文社区](#)

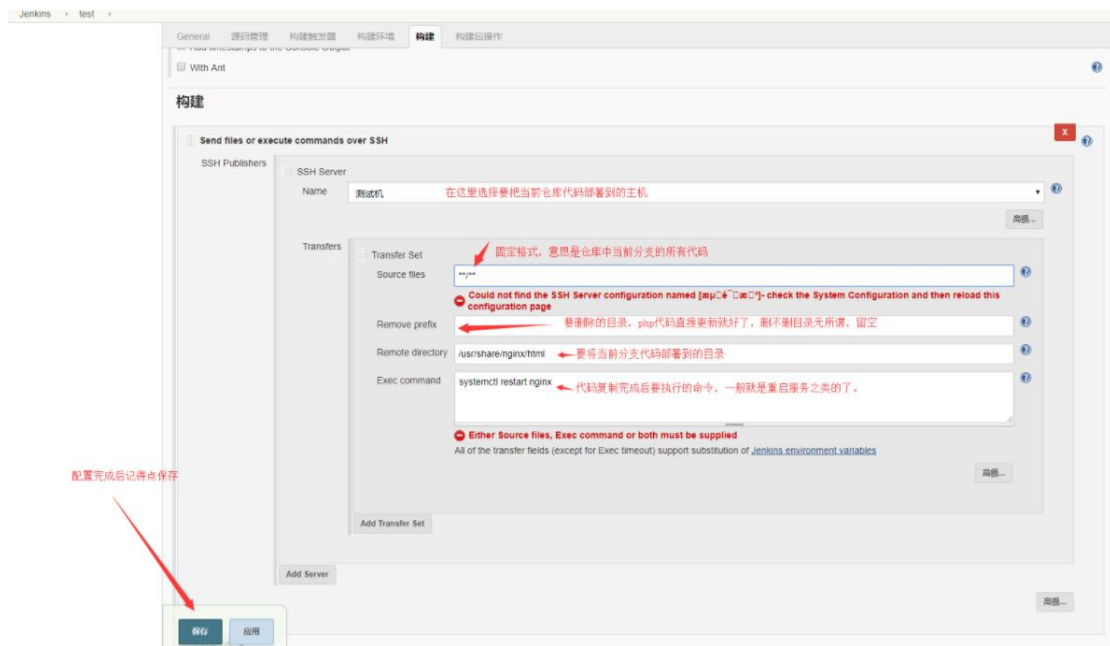




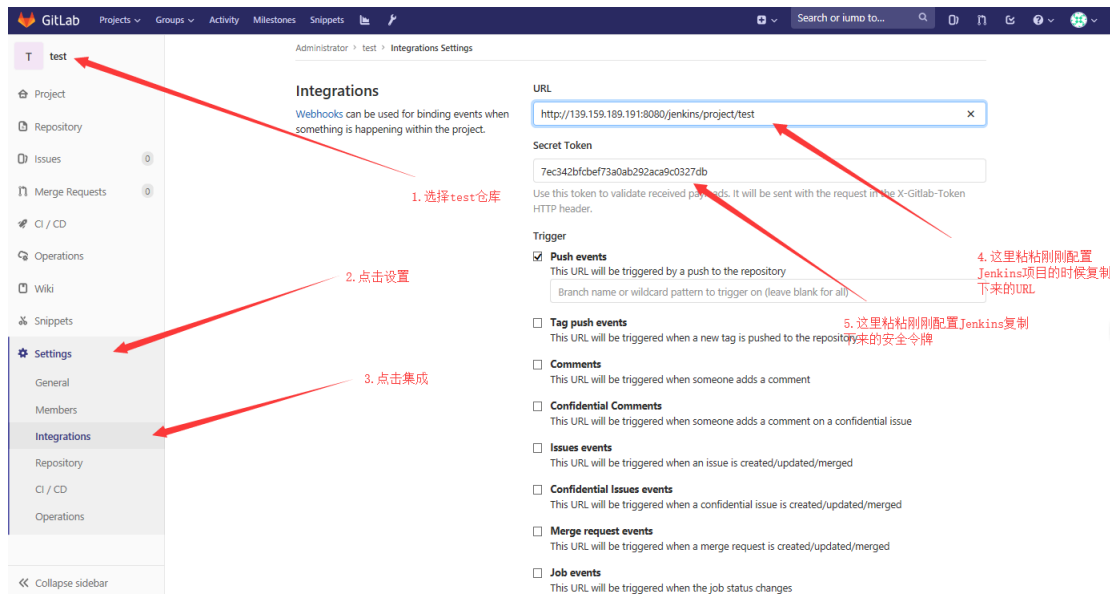


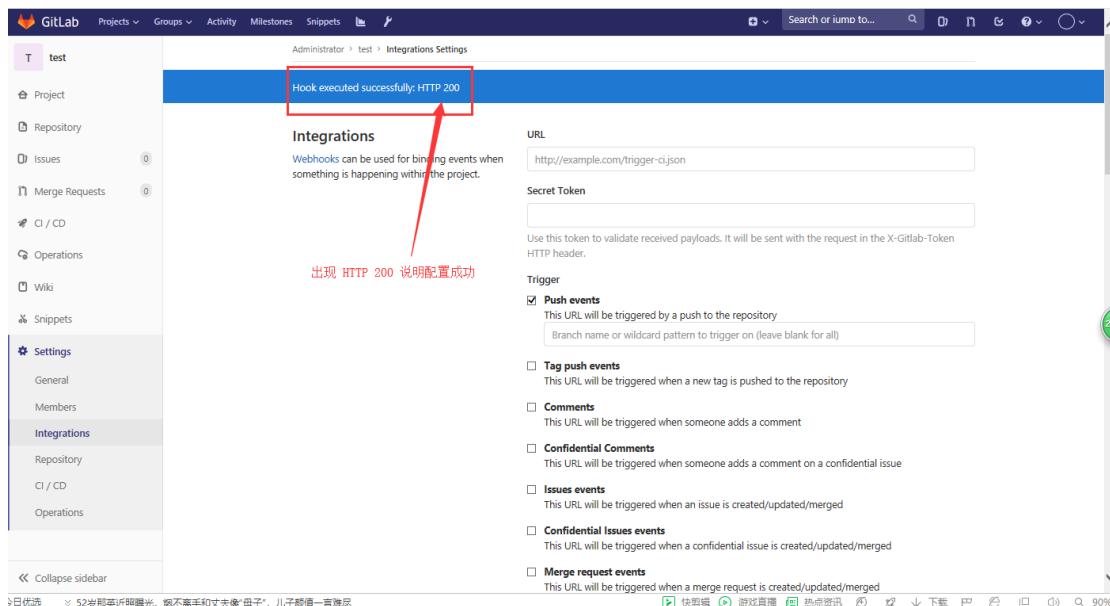
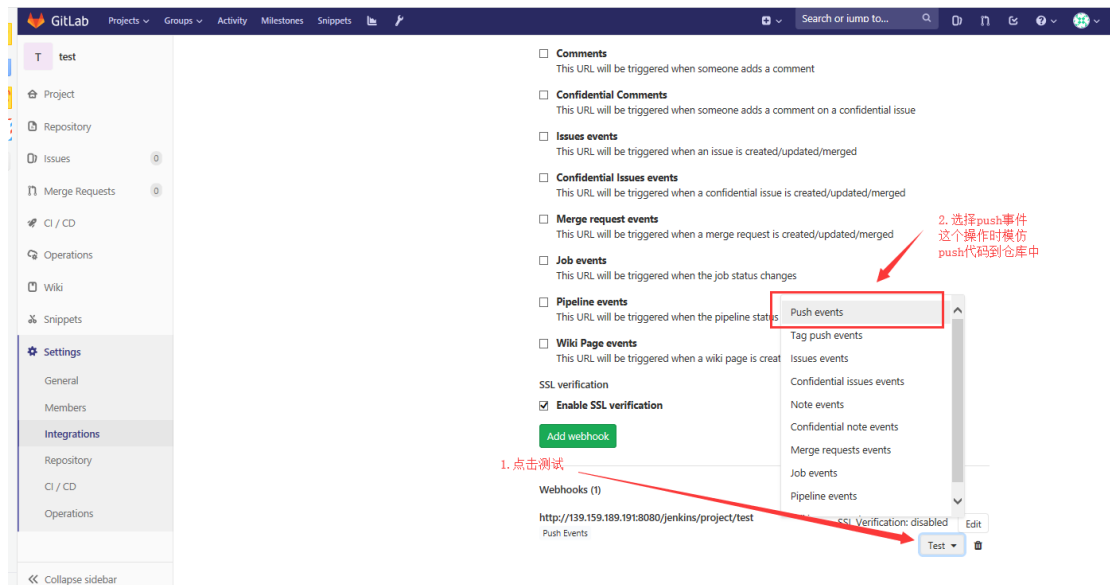
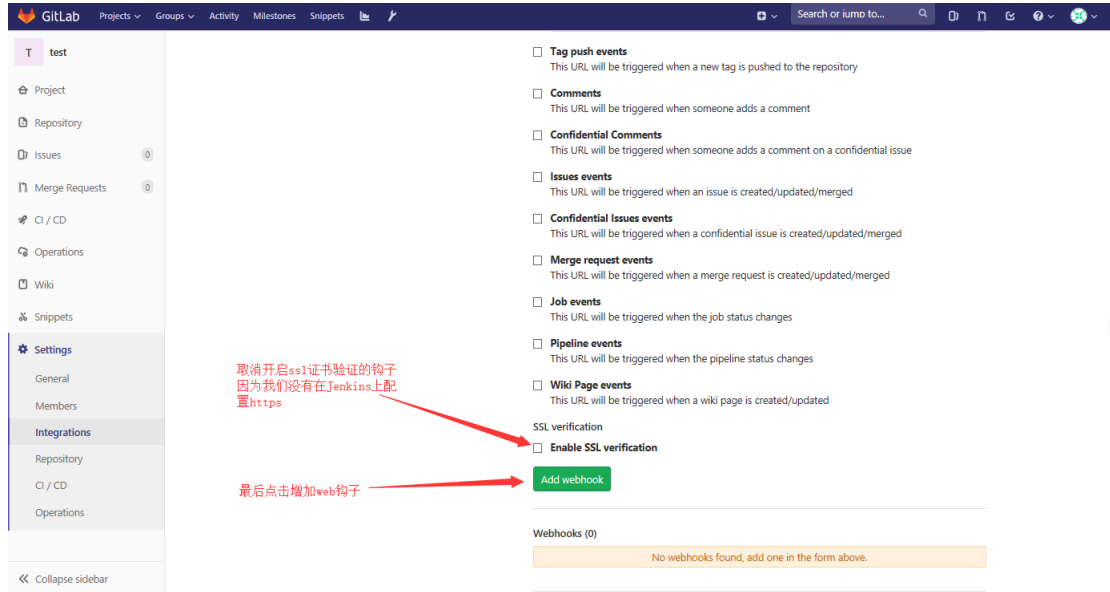
构建触发器





#配置 gitlab，当有代码提交时，触发 jenkins 的部署操作







测试提交代码是否会部署到远程主机

#再次克隆仓库

```
git clone git@139.9.91.82:root/test.git
```

```
cd test/
```

```
echo '测试 Jenkins' > index.html
```

```
git add .
```

```
git commit -m 'add index.html'
```

```
git push
```

```
[root@jenkins ~]# ls
apache-tomcat-9.0.6.tar.gz  baidu.html  index.html
[root@jenkins ~]# git clone git@139.9.91.82:root/test.git
Cloning into 'test'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (6/6), done.
[root@jenkins ~]# mv baidu.html test/
[root@jenkins ~]# cd test/
[root@jenkins test]# git add .
[root@jenkins test]# git commit -m 'add baidu.html'
[master 950f421] add baidu.html
1 file changed, 44 insertions(+)
create mode 100644 baidu.html
[root@jenkins test]# git push
warning: push.default is unset: its implicit value, changing in
Git 2.0 from 'matching' to 'simple'. To squelch this message
and maintain the current behavior after the default changes, use:

    git config --global push.default matching

To squelch this message and adopt the new behavior now, use:

    git config --global push.default simple

See 'git help config' and search for 'push.default' for further information.
(the 'simple' mode was introduced in Git 1.7.11. Use the similar mode
'current' instead of 'simple' if you sometimes use older versions of Git)

Counting objects: 4, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 742 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To git@139.9.91.82:root/test.git
  818a5c2..950f421 master -> master
[root@jenkins test]#
```

克隆远程仓库到本地

移动要部署的网页文件到测试仓库目录

提交到远程仓库

提交测试网页到本地
以及打标签

#提交之后去 jenkins 页面看看

Jenkins test

工程 test

工作区

最新修改记录

相关链接

- 最近一次构建(#3) 11 分之前
- 最近稳定构建(#3) 11 分之前
- 最近成功的构建(#3) 11 分之前
- 最近完成的构建(#3) 11 分之前

Build History

构建历史

find

#	Time	Started by
#3	2019-7-14 下午8:57	Started by GitLab push by Administrator
#2	2019-7-14 下午8:45	Started by GitLab push by Administrator
#1	2019-7-14 下午8:39	Started by GitLab push by Administrator

BSS 全部 BSS 失败

刚刚我提交了一次网页测试文件已经部署到web服务器上了

Jenkins test #2

控制台输出

```
Started by GitLab push by Administrator
Building in workspace /usr/share/jenkins/jenkins/workspace/test
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url git@192.168.1.2:root/test.git # timeout=10
Fetching upstream changes from git@192.168.1.2:root/test.git
> git --version # timeout=10
using GIT_SSH to set credentials
> git fetch --tags --progress git@192.168.1.2:root/test.git --depth=1 --no-recurse-submodules
> git rev-parse remote/origin/master [command] # timeout=10
> git branch --quiet --no-abuse --no-trace --no-recurse-submodules --no-recurse-submodules --no-recurse-submodules
Checking out Revision 550fca2effa8921d872a017b0b00542e807 (origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 550fca2effa8921d872a017b0b00542e807
Commit message: "add index.html"
> git rev-list --no-walk a12fa8054519d23abacc3a5144682104a5081 # timeout=10
SSH: Connecting from host [jenkins]
SSH: Connecting with configuration [测试机]...
SSH: EXEC: STDOUT/STDERR from command [systemctl restart nginx] ...
SSH: EXEC: completed after 603 ms
SSH: Disconnecting configuration [测试机] ...
SSH: Transferred 3 file(s)
Build step 'Send files or execute commands over SSH' changed build result to SUCCESS
Finished: SUCCESS
```

通过Jenkins构建的控制台可以看到，部署的代码分支是master分支部署完成之后也执行了重启nginx的命令

Jenkins test

工程 test

工作区

最新修改记录

相关链接

- 最近一次构建(#5) 4 分 14 秒之前
- 最近稳定构建(#5) 4 分 14 秒之前
- 最近成功的构建(#5) 4 分 14 秒之前
- 最近完成的构建(#5) 4 分 14 秒之前

Build History

构建历史

find

#	Time	Started by
#5	2019-7-14 下午10:03	
#4	2019-7-14 下午9:37	Started by GitLab push by Administrator
#3	2019-7-14 下午8:57	Started by GitLab push by Administrator
#2	2019-7-14 下午8:45	Started by GitLab push by Administrator
#1	2019-7-14 下午8:39	Started by GitLab push by Administrator

BSS 全部 BSS 失败

点击立即构建

开启自动刷新

查看 web 服务器

```
1.txt baidu.html index.html
[root@ecs-nginx ~]# ll /usr/local/nginx/html/
total 8
-rw-r--r-- 1 root root 6 Jul 14 22:03 1.txt
-rw-r--r-- 1 root root 873 Jul 14 22:03 baidu.html
-rw-r--r-- 1 root root 0 Jul 14 22:03 index.html
[root@ecs-nginx ~]#
```

文件已经集成到指定web网页根目录

访问 web 测试页面

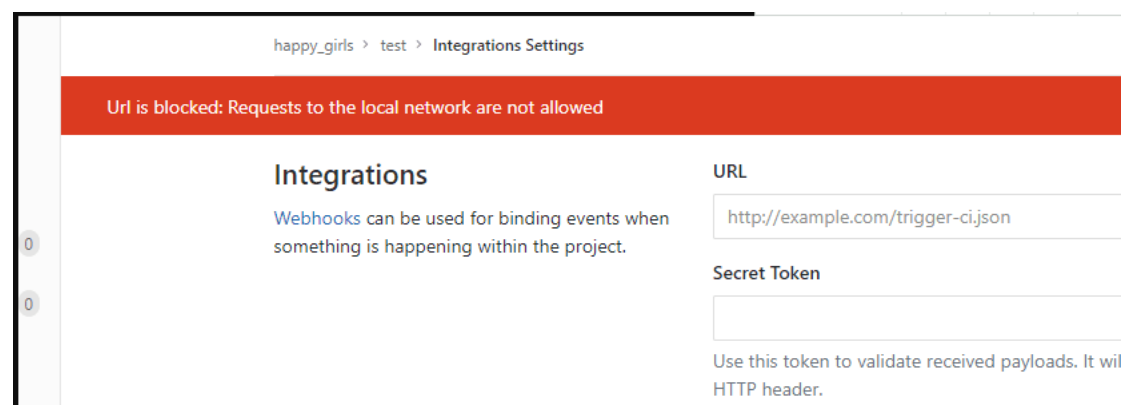


访问成功

小坑：

错误提示：

#很多朋友使用最新版本的 gitlab 做自动部署时，在增加 web 钩子那一步，
#点击 test push events 时会报错：Url is blocked: Requests to the local network are not allowed



解决方法：

#这是因为新版的 gitlab 为了安全默认禁止了本地局域网地址调用 web hook

#我们在设置里允许就行，具体步骤如下：

